

# OVERVIEW OF WORK PACKAGES

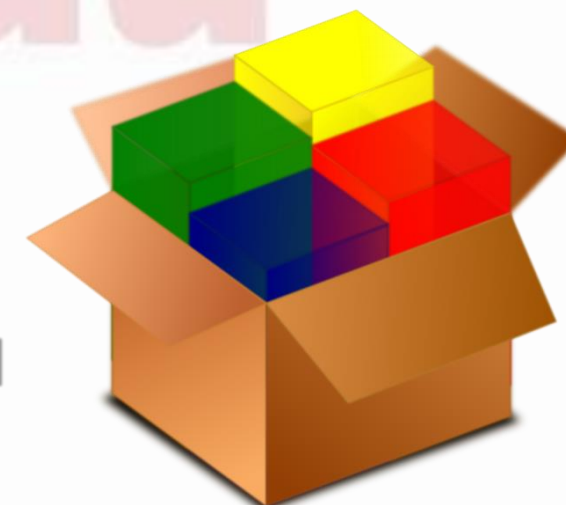
Kick-Off Meeting of the Erasmus Plus Project:  
**MSc course in STEAM education – STEAMedu**

Online, February 23 and 24, 2021

Boris Crnokić

# Work packages - Overview

- **WP1 – PREPARATION:** Identification of similar curricula and needs assessment in the subject area
- **WP2 – DEVELOPMENT:** Development of the STEAM MSc Curriculum & VLE
- **WP3 – DEVELOPMENT:** Development of educational material, labs infrastructure & Capacity building
- **WP4 – DEVELOPMENT:** Accreditation and delivery of the STEAM MSc Programme
- **WP5 – QUALITY PLAN:** Quality Assurance & Monitoring
- **WP6 – DISSEMINATION & EXPLOITATION:** Dissemination and Exploitation
- **WP7 – MANAGEMENT:** Management & Coordination



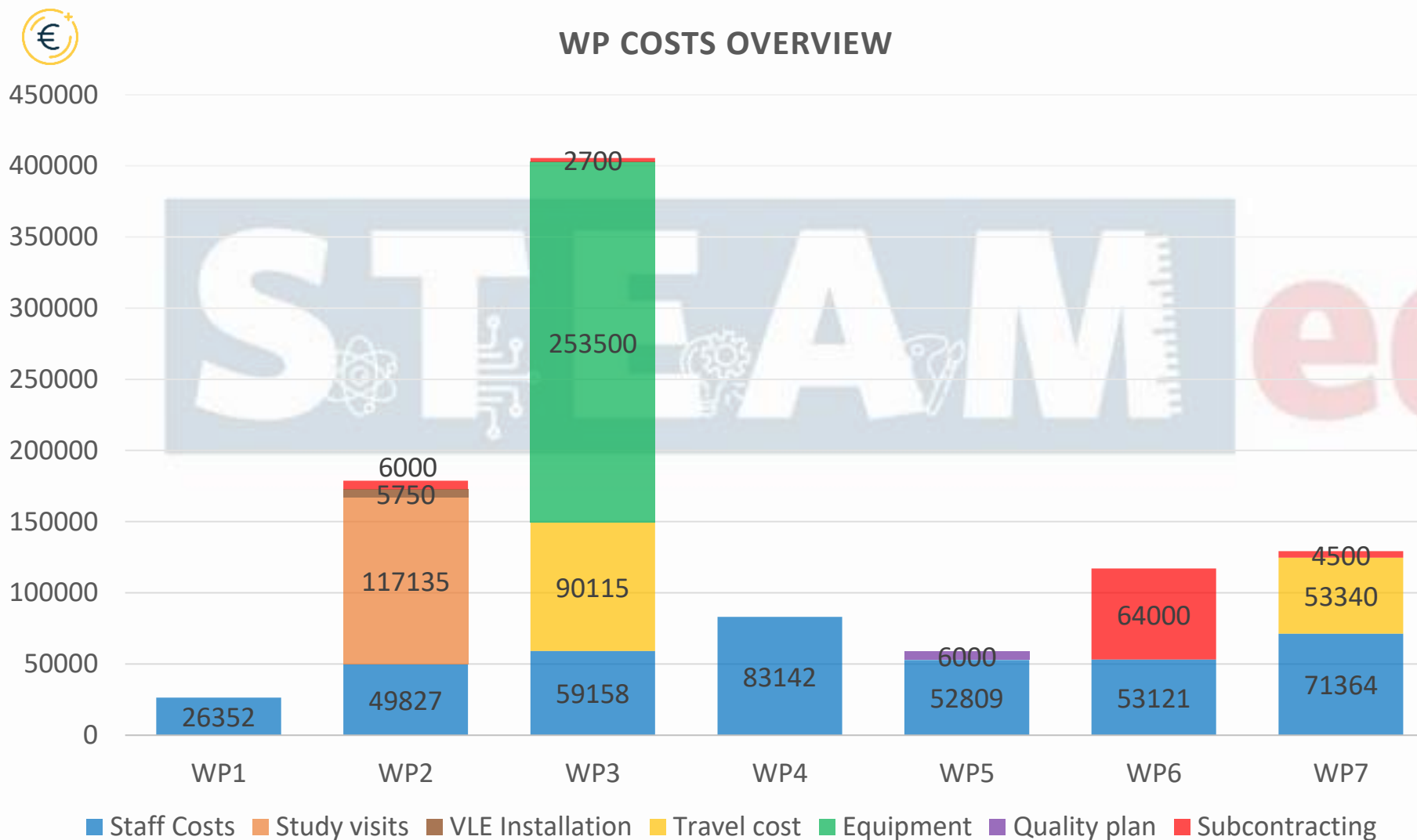
# Work packages – WP Leaders overview

WP	WP Leader	Task leader
WP 1	University of Cyprus – UCY	1.1 Dzermal Bljedic University of Mostar – UNMO 1.2 & 1.4 University of Cyprus – UCY 1.3 Metropolitan College S.A - AMC
WP 2	Hellenic Open University – HOU	2.1 & 2.3 Hellenic Open University – HOU 2.2 Skybridge Partners Outsourcing Services PC and IKE - SKYBRIDGE
WP 3	Metropolitan College S.A - AMC University for Business & Technology – UBT	3.1 University of Tirana – UT 3.2 Hellenic Open University – HOU 3.3 University of Mostar - SUM 3.4 Metropolitan College S.A - AMC & University for Business & Technology– UBT
WP 4	Ministry of Education, Science, Culture and Sport of Canton Una-Sana - MESCS USC	4.1, 4.2, 4.3 Ministry of Education, Science, Culture and Sport of Canton Una-Sana - MESCS USC
WP 5	Hellenic Open University – HOU	5.1, 5.2 Hellenic Open University – HOU
WP 6	University of Prishtina “Hasan Prishtina” – UPHP	6.1 & 6.3 University of Prishtina “Hasan Prishtina” – UPHP 6.2 Skybridge Partners Outsourcing Services PC and IKE – SKYBRIDGE 6.4 University of Mostar – SUM 6.5 University for Business & Technology – UBT
WP 7	University of Mostar - SUM	7.1, 7.2, 7.3, 7.4 University of Mostar - SUM





# Work packages – Costs overview



# Work packages – Duration overview

	Year 1												Year 3												Year 3												
	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	
WP1																																					
WP2																																					
WP3																																					
WP4																																					
WP5																																					
WP6																																					
WP7																																					



# Work packages – Activities overview

Activities for project year 1		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title												
A1.1	Identification of similar curricula in Balkans (Partner Countries)												
A1.2	Identification of similar curricula in Europe												
A1.3	Identification of existing professional/VET courses in the subject area and demand for internships in the Partner Countries												
A1.4	Compilation of final report												
A2.1	Study visits to Europe for Curriculum Development												
A2.2	Development of STEAMedu VLE												
A2.3	Curriculum development												
A4.1	Accreditation of the STEAMedu MSc Programme												
A5.1	Quality assurance plan and continuous quality control												
A5.2	Evaluation methodology and reporting												
A6.1	Dissemination Plan												
A6.2	STEAMedu Website												
A6.3	Dissemination activities												
A6.5	Exploitation and Sustainability Plan												
A7.1	Technical Coordination, including Meetings												
A7.2	Administrative Coordination												
A7.3	Risk management and Contingency Planning												
A7.4	Communication and Conflict Resolution												



# Work packages – Activities overview

Activities for project year 2		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title												
A2.2	Development of <u>STEAMedu</u> VLE												
A3.1	Development of <u>STEAMedu</u> learning material												
A3.2	Capacity building of Western Balkan HEI staff												
A3.3	Setup of equipment and establishment of " <u>STEAMedu</u> Labs" in Partner Countries												
A3.4	Planning of internship programme in Partner Countries												
A4.1	Accreditation of the <u>STEAMedu</u> MSc Programme												
A4.3	Evaluation and improvement of the <u>STEAMedu</u> MSc Programme												
A5.1	Quality assurance plan and continuous quality control												
A5.2	Evaluation methodology and reporting												
A6.2	<u>STEAMedu</u> Website												
A6.3	Dissemination activities												
A6.5	Exploitation and Sustainability Plan												
A7.1	Technical Coordination, including Meetings												
A7.2	Administrative Coordination												
A7.3	Risk management and Contingency Planning												
A7.4	Communication and Conflict Resolution												



# Work packages – Activities overview

Activities for project year 3		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title												
A4.2	Delivery of the STEAMedu MSc Programme												
A4.3	Evaluation and improvement of the STEAMedu MSc Programme												
A5.1	Quality assurance plan and continuous quality control												
A5.2	Evaluation methodology and reporting												
A6.2	STEAMedu Website												
A6.3	Dissemination activities												
A6.4	Organisation of Final Conference												
A6.5	Exploitation and Sustainability Plan												
A7.1	Technical Coordination, including Meetings												
A7.2	Administrative Coordination												
A7.4	Communication and Conflict Resolution												





## WP1 – PREPARATION: Identification of similar curricula and needs assessment in the subject area

Estimated Start Date	15 January 2021	Estimated End Date	14 May 2021
Lead Organisation	P15 - UCY		
Participating Organisation	All HEIs from the EU and the Western Balkans		
Costs	Staff costs: 26352 euro		



## WP1 – PREPARATION: Identification of similar curricula and needs assessment in the subject area

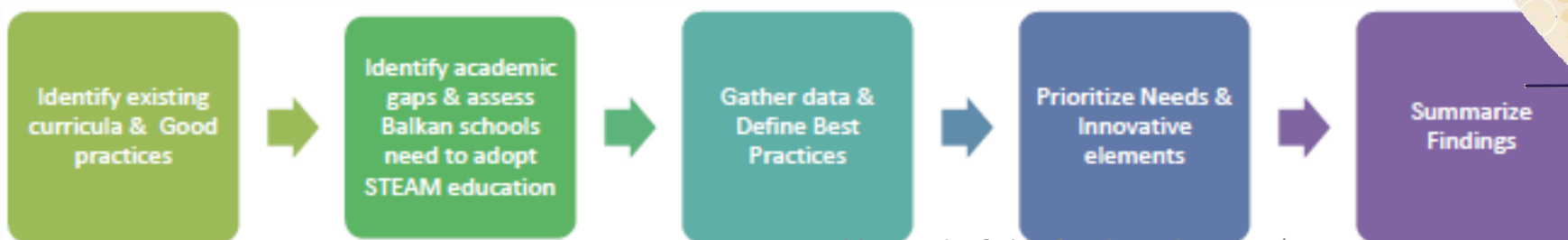
- The **aim** of WP1 is to **map and analyse the existing academic programmes** in both Europe and the Balkans in the field of STEAM education, as well as similar Professional/Vocational training programmes.
- There will be an **assessment** of the opening gap between the need (and the capability) of Western Balkan schools and school curricula to **adopt STEAM education and the low readiness of the educational sector** to provide STEAM-ready graduates in Albania, BiH and Kosovo.
- The project will **better assess the availability of existing courses and school needs** in all Partner Countries and thereby **create a truly new, innovative and cross-disciplinary MSc programme**.



## WP1 – PREPARATION: Identification of similar curricula and needs assessment in the subject area



- **A 1.1 Identification of similar curricula in Balkans** (Leader: UNMO)
- **A 1.2 Identification of similar curricula and best practices in Europe** (Leader: UCY)
- **A 1.3 Identification of existing professional/VET training courses in the subject area and demand for internships in the partner countries** (Leader: AMC)
- **A 1.4 Compilation of final report** (Leader: UCY)



## WP2 – DEVELOPMENT: Development of the STEAM MSc Curriculum & VLE

Estimated Start Date	15 May 2021	Estimated End Date	14 July 2022
Lead Organisation	P15 - HOU		
Participating Organisation	All EU and Western Balkan partners.		
Costs	<p>Staff costs: 49827 euro Study visits: 117135 euro</p> <p>Translations of WP2 deliverables to AL and BA will cost 6000 euro.</p> <p>VLE Installation, Back-end configuration of open source platform and technical support for 3 years: 5750 euro</p>		





## WP2 – DEVELOPMENT: Development of the STEAM MSc Curriculum & VLE

- **AIMS:** development of optimal **curriculum for the STEAM MSc programme** according to results and findings of WP1
- **TARGET AUDIENCE:**
  - ✓ **students, teachers and professionals** who want to take part in **educational change** in response to modern-day technologies and scientific methods
- Current STEAM **faculty heads and senior leaders inclusion and education**
- **AREA OF INTEREST:** Socio-cultural foundations of Education, Statistics, ICT in education, Social development through technology, Science Education, in Technology and Engineering Education and Robotics



## WP2 – DEVELOPMENT: Development of the STEAM MSc Curriculum & VLE

- Compulsory + elective **courses diversity**
- Curricula of the professional/VET courses designed to **meet the training needs of both teachers and practitionaires** working in the domain of education
- Development of the **STEAM Virtual Learning Environment (VLE)**
- Massive **Open Online Courses** (MOOCs) offered through the STEAM VLE
- **Final aim:** moving from content-based to outcome-based education; from teacher-centered to student-centered approach.



## WP2 – DEVELOPMENT: Development of the STEAM MSc Curriculum & VLE



- **2.1 – Study visits to Europe** for Curriculum Development (Leader: HOU) – 2 study visits, 4 academic professionals, 4 days
- **OUTCOMES:**
  - ✓ **shift from content-based education** to outcome based, ECTS/ESG application, basic principles of MOOC environment
- **2.2 Development of STEAM VLE** (Leader: Skybridge)
- STEAM VLE will consist of the following 3 sections:
  - ✓ Academic Space
  - ✓ STEAM MSc Virtual Library
  - ✓ Professionals/VET courses (MOOCs)
- **2.3 Curriculum development** (Leader: HOU)
- **Handbook on curricula development** & ECTS/ESG and in parallel to the Study Visits



## WP3 – DEVELOPMENT: Development of educational material, labs infrastructure & Capacity building

Estimated Start Date	14 February 2022	Estimated End Date	14 January 2023
Lead Organisation	P16-AMC and P12-UBT		
Participating Organisation	All EU partners and Western Balkan partners		
Costs	<p>Staff cost: 59158 euro</p> <p>Travel cost : 90115 euro</p> <p>Translations of WP2 deliverables to AL and BA will cost 2700 euro (subcontract). Purchase of the STEAMedu labs equipment in all partner countries HEIs will cost 19500 euro.</p>		





## WP3 – DEVELOPMENT: Development of educational material, labs infrastructure & Capacity building

- **Following the curriculum development** on outcome and student-based approaches in WP2, **WP3 develops means and capacity for the programme delivery by the Western Balkan partners.**
- One of the main ways in which STEAMedu will build capacity in the western Balkan partner HEIs is through the **professional development of their academic, technical and administrative staff.**
- **WP3 aims:**
  - ✓ **build the capacity of Western Balkan University staff** regarding the means of curriculum delivery (educational material, labs);
  - ✓ **develop the means of curricula delivery** themselves (syllabi, educational material, labs)
  - ✓ **set up the internship programme** and building lasting synergies with the relevant STEAM-related firms and organizations/institutions

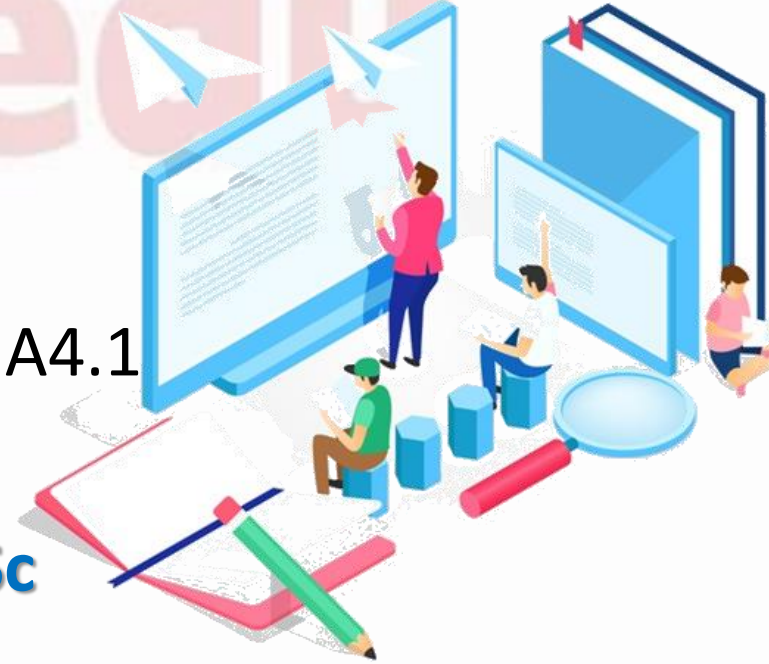


## WP3 – DEVELOPMENT: Development of educational material, labs infrastructure & Capacity building



- WP3 will **deliver**:
  - ✓ three (3) **trainings of Western Balkan University staff**, aimed at:
    - development of STEAM Master educational material
    - Use of Lab Infrastructures.
  - ✓ STEAM MSc Curricula **syllabi and training material**
  - ✓ STEAMedu **Labs infrastructure**
- After the end of this WP, as well as of WP4-Activity A4.1 “Accreditation and delivery of the STEAM MSc Programme”, which run in parallel, Western Balkan partner institutions **will be ready to deliver the MSc programme** in WP4.

**IMPORTANT**



## WP3 – DEVELOPMENT: Development of educational material, labs infrastructure & Capacity building



- WP3 **tasks:**

**A3.1 Development of STEAMedu learning material** (Leader: P5-UT)

**A3.2 Capacity building of Balkan HEI staff** (Leader: HOU)

**A3.3 Setup of equipment and establishment of “STEAMedu Labs” in Partner Countries** (Leader: SUM)

**A3.4 Planning of internship programme in partner countries** (Leaders: P16-AMC & P12-UBT)



## WP4 – DEVELOPMENT: Accreditation and delivery of the STEAM MSc Programme

Estimated Start Date	14 Jul 2021	Estimated End Date	14 Dec 2023
Lead Organisation	P18 - Bihac Cantonal Ministry of Education		
Participating Organisation	All EU partners and Western Balkan partners		
Costs	Staff cost: 83142 euro		





## WP4 – DEVELOPMENT: Accreditation and delivery of the STEAM MSc Programme



### • ACTIVITIES by WORKPLAN

✓ A4.1. **Accreditation** of the STEAMedu MSc Programme

M6-M24

✓ A4.2. **Delivery** of the STEAMedu MSc Programme

M25-36

✓ A4.3. **Evaluation and improvement** of the STEAMedu MSc Programme

M20; M28; M29; M34; M35



## WP4 – DEVELOPMENT: Accreditation and delivery of the STEAM MSc Programme



- **Outputs WP4:**

- ✓ **D4.1 Accreditation report**

14 Jan 2022 / 14 Jan 2023

- ✓ **D4.2 Toolkit for the evaluation** of the STEAM MSc programme

14 Jan 2023

- ✓ **D4.3 Delivery** of the STEAM programme in partner countries

14 Feb 2023 – 14 Jan 2024

- ✓ **D4.4 Interim STEAM MSc Programme evaluation report**

14 Jun 2023

- ✓ **D4.5 Final STEAM MSc programme evaluation report**

14 Jan 2024



## WP4 – DEVELOPMENT: Accreditation and delivery of the STEAM MSc Programme

### • Assumptions:

- ✓ That all deliverables and activities required for the delivery of the programme to take place, **will be completed on time**.
- ✓ That all necessary academic staff from the partner Western Balkan HEIs will commit to the **successful delivery of the programme**.

### • Risks:

- ✓ That the accreditation process **will not be completed in time**
- ✓ Mitigation measures:
  - the Ministry of Education of Bihac is the **WP leader for accreditation**;
  - WP4 activities **initiate at the very beginning of the project** (on M6) allowing enough time for the completion of the accreditation process;
  - authorities responsible for accreditation will be **involved in the project from the very beginning**, as they are direct stakeholders

**IMPORTANT**



## WP5 – QUALITY PLAN: Quality Assurance & Monitoring

Estimated Start Date	14 Feb 2021	Estimated End Date	14 Jan 2024
Lead Organisation	HOU		
Participating Organisation	ALL EU and Western Balkan partners		
Costs	<p>Staff costs 52809 euro required for the quality assurance plan and continuous quality control, evaluation methodology and reporting.</p> <p>Quality plan: 6000 euro</p>		

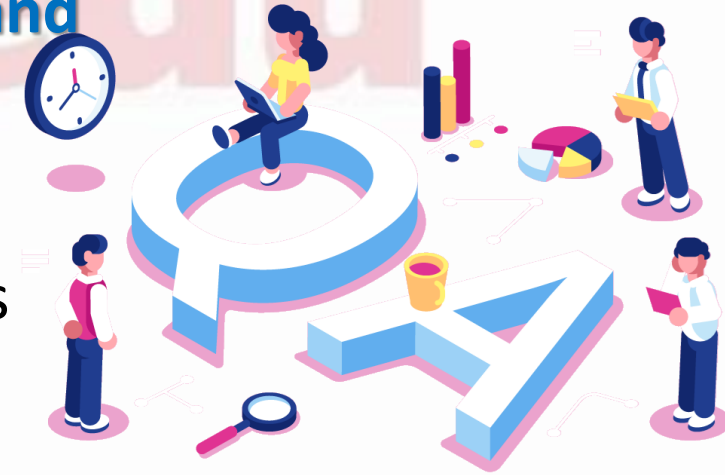




## WP5 – QUALITY PLAN: Quality Assurance & Monitoring



- This WP **aims** at **maintaining a watch on quality to assure the activities of the project are properly executed** and outputs produced are of a **sufficient quality** to be considered 'high'.
- The **objective** is on providing a set of **monitoring tools and bodies for the project activities** which can be applied horizontally in all project activities.
- Project should have **impact like effects** of project results on:
  - ✓ **Individuals**
  - ✓ **Institutions**
  - ✓ **Education sistem**



## WP5 – QUALITY PLAN: Quality Assurance & Monitoring



- **Quality monitoring will use a series of tools**, but above all, for example we will use LFM
- **Quality assurance and evaluation** will be ensured by:
  - ✓ the **Quality Assurance leader (HOU) and the STEAMedu Management board** that will be in charge of approving all **STEAMedu public documents and other deliverables**,
  - ✓ **The Quality Assurance Plan**, that will systematize all quality assurance, monitoring and evaluation activities - The plan will be shared with the rest of the project team (**Quality Board** - set up with the same number of members as the partners)
- We planned **three virtual meetings**: 14 Mar 2021 ; 14 Jan 2023 ; 14 Jan 2024



## WP5 – QUALITY PLAN: Quality Assurance & Monitoring



- **Quality Control Process** model will follow these phases of the project to ensure:
  - ✓ **Control of data** that are collected and analyzed concerning each phase's requirements.
  - ✓ **Control of the required resources** (materials, tools, software, human resources).
  - ✓ **Control of milestones** of each phase in order to continually review and implement corrective actions.
  - ✓ **Control of the results** in order to know if the needs were met (feedback).



## WP6 – DISSEMINATION & EXPLOITATION: Dissemination and Exploitation

Estimated Start Date	14 Nov 2021	Estimated End Date	14 Jan 2024
Lead Organisation	UPHP		
Participating Organisation	All partners		
Costs	<p>Staff costs (Unit costs): 53121 euro required for dissemination &amp; exploitation activities</p> <p>Subcontracting costs (real costs): 64000 euro (Organisation of Final Conference, website web-hosting, printing of the Dissemination materials (leaflets, posters, etc) (D6.4), Publishing costs, creation of STEAMedu visual identity)</p>		





## WP6 – DISSEMINATION & EXPLOITATION: Dissemination and Exploitation



- **Dissemination activities aim to:**
  - ✓ **Maximize the project impact** for long-term exploitation and ensure its sustainability.
  - ✓ Identify relevant stakeholders to **create viable links to STEAM education** and in fact enhance STEAM related teaching methods. Use knowledge acquired in this project to **promote innovation in STEAM**.
- **Exploitation and Sustainability** activities expect collaboration in order to create an **exploitation plan** that will include:
  - ✓ the results to be **exploited and stakeholders targeted**,
  - ✓ analysis of the fit between these results, the **needs and requirements of the stakeholders**.
  - ✓ The main targets of the exploitation strategy are:
    - continuation and further **development of the STEAMedu curriculum**,
    - the **spread and growth of the established partnership** between the European and Balkan HEIs as well as other stakeholders,
    - **expanding cooperation** between HEIs and relevant STEAM-related entities.



## WP6 – DISSEMINATION & EXPLOITATION: Dissemination and Exploitation



### • D 6.1. Dissemination Plan

- ✓ Main aim – **Branding and project reach.**
- ✓ Activity leaders from SUM – Mario Šunjić, Ana Šuman, Mila Zovko, Daniel Vasić.
- ✓ Activity partner – University of Prishtina “Hasan Prishtina”. Due date – 14 April 2021.
- ✓ Deliverable – **dissemination plan in form of document/report.**

### • D 6.2. STEAMedu Website

- ✓ Main aim - **Creation of the projects informative website** with main information about the project.
- ✓ Activity leader from SUM – Daniel Vasić
- ✓ Activity partner – Skybridge Partners Outsourcing IKE.
- ✓ Due date – 14 April 2021.
- ✓ Deliverable – **website in form of product/service .**



# WP6 – DISSEMINATION & EXPLOITATION: Dissemination and Exploitation

- **D 6.3. Stakeholders analysis**

- ✓ Main aim – **analysis will identify and prioritize the stakeholders.**
- ✓ Activity leaders from SUM – Ana Šuman, Mila Zovko, Mario Šunjić, Daniel Vasić.
- ✓ Activity partner – University of Prishtina “Hasan Prishtina”.
- ✓ Due date – 14 August 2021.
- ✓ Deliverable – **document/report in form of stakeholder analysis.**

- **D 6.4. Portfolio dissemination material**

- ✓ Main aim – **STEAM dissemination portfolio will include flyers, a poster, templates for short articles** about the project. Two stage delivery.
- ✓ Activity leaders from SUM – Žana Mrkonjić, Inja Stojkić, Daniel Vasić.
- ✓ Activity partner – University of Mostar.
- ✓ Due date – 1st stage: 14 July 2021, second stage: 14 January 2024
- ✓ Deliverable – **promotional materials and templates for short articles.**





## WP6 – DISSEMINATION & EXPLOITATION: Dissemination and Exploitation



### • **D 6.5. STEAMedu Final conference**

- ✓ Main aim – **A Final Conference will be organized by UT in Tirana** concurrently with the final project meeting;
- ✓ Activity leaders from SUM – Inja Stojkić, Žana Mrkonjić, Mila Zovko.
- ✓ Activity partner – University for Business & Technology.
- ✓ Due date – 14 January 2024.
- ✓ Deliverable – **document/report in form of stakeholder analysis.**

### • **D 6.6. STEAMedu Exploitation and sustainability plan**

- ✓ Main aim – **collaborate in order to create an exploitation and sustainability plan**
- ✓ Activity leaders from SUM – Inja Stojkić, Žana Mrkonjić, Daniel Vasić.
- ✓ Activity partner – N/A.
- ✓ Due date – 1st version: 14 January 2023, 2nd version: 14 December 2023
- ✓ Deliverable – **document/report in form of exploitation and sustainability plan.**





## WP7 – MANAGEMENT: Management & Coordination

Estimated Start Date	14 Feb 2021	Estimated End Date	14 Jan 2024
Lead Organisation	SUM		
Participating Organisation	All partners		
Costs	<p>Staff costs (Unit costs): 71364 euro required for project management and coordination activities.</p> <p>Subcontracting costs (real costs): 4500 euro. Organization of the project meetings (Coffees, Tea, Water, Fruit, Juice, Biscuits, etc) for participants and speakers, external financial audit.</p> <p>Travel and subsistence costs (lump sums): 53340 euro (Kick-off meeting, Project meeting in Pristina and Final conference in Tirana)</p>		



## WP7 – MANAGEMENT: Management & Coordination



- The **objectives** of WP7 can be summarized as follows:

- ✓ **Effective and concerted project implementation** that will ensure that
  - the **project objectives are reached, managed and disseminated** in a coordinated and coherent manner, along with all technical activities and legal aspects and
  - **efficient management** of time & resource allocation at consortium level and coordination of the Work Packages
- ✓ **Management of the project's external relations**, with EACEA and stakeholders.
- ✓ **Ensure external input** from actors in the field.
- ✓ **Risk management** and contingency planning.



## WP7 – MANAGEMENT: Management & Coordination

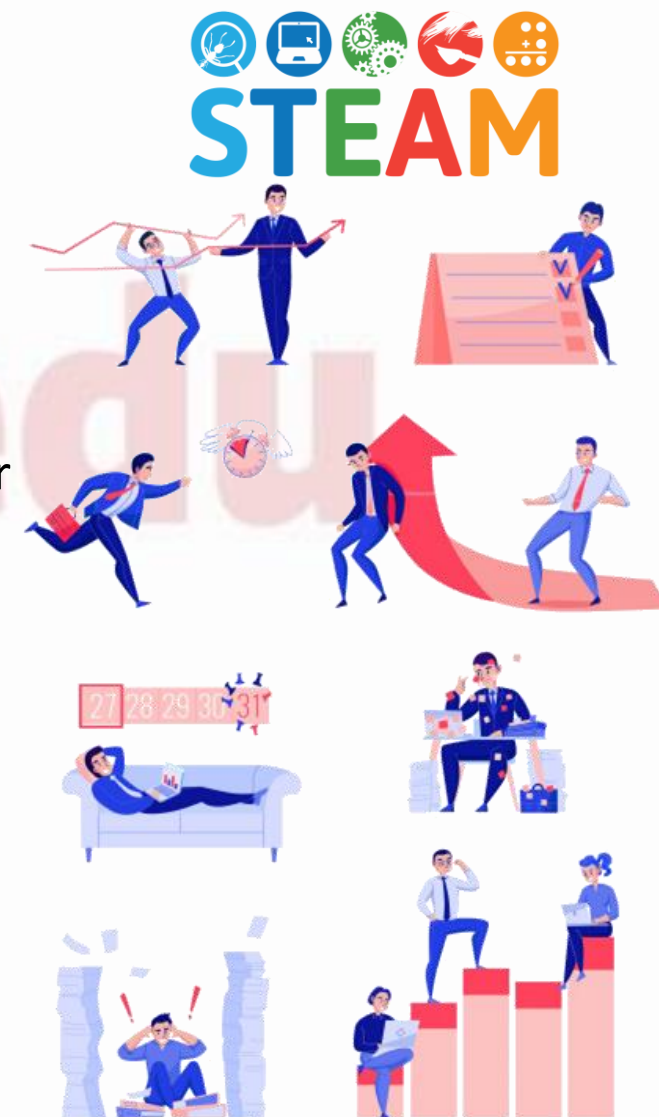
- Project implementation will be supervised by a **management board**.
- The management board will **collaborate closely** with the coordinator and the partner leading WP5: **Quality Assurance and Evaluation**.
- The WP aims at the **careful and constant monitoring of project progress**, budget and achievements essential to its success.
- Different means of **communication** will be employed to **ensure a fluid and constant contact** (face-to-face, email, telephone, videoconference, skype).





## WP7 – MANAGEMENT: Management & Coordination

- **Tasks:**
- **A 7.1 Technical Coordination**, including Meetings
  - ✓ **setting up the management structure** (allocation of roles) and overseeing the project progress
- **A 7.2 Administrative Coordination**, including Reports
  - ✓ **day-to-day management and control** of costs, purchasing and managing travels and per diem, collection of supporting documents for reports and payments
- **A 7.3 Contingency Planning & Conflict Resolution**
  - ✓ **contingency plan** will be drawn up at project commencement as the first step in project adjustment
- **A 7.4 Communication and Conflict Resolution**
  - ✓ **WP reports** (done by WP leaders) - containing WP progress
  - ✓ **Partner reports** (done by each partner) - containing partner activities, costs and indicators.





## CONCLUSION - next 6 months

- **Detailed presentations** of the **three WPs** that will be the **most challenging for us in the first six months** of the project: **WP1, WP2 and WP4**
- **WP1:** Some of the activities have **already started**
- **WP2:** Start of activities: **Development of STEAM VLE & Curriculum development**
- **WP3:** Procurement of **equipment** should be as soon as possible, as soon as the Partnership Agreements are signed
- **WP4:** **Accreditation will be a huge challenge**
- **WP6:** **STEAMedu Logo** and **web site**



Thanks for your attention!

Faleminderit per vemendjen!

Ευχαριστώ για την προσοχή!

Hvala na pozornosti!

